

### AMENDMENT TO THE CLAIMS

Please amend the claims as follows:

1. (currently amended) An alarm system comprising:  
an alarm controller,  
a remote input/output device,  
a single cable extending from the alarm controller to the remote input/output device, the cable comprising only two conductors providing power to the remote input/output device, ~~and~~  
a signal processor at the controller monitoring and processing voltage and current fluctuations in the conductors and controlling functions of the alarm system, and  
a mixer at the remote input/output device operative to affect current and voltage at the two conductor cable,  
wherein the mixer applies said predefined voltage and current levels to the two conductors, and wherein both the signal processor and mixer transmit and receive signals via the two-conductor cable.
- 2-4. cancelled
5. (new) The alarm system of claim 1 wherein the predefined voltage and current levels correspond to different signal types.
6. (new) The alarm system of claim 1 wherein the remote input/output device is a keypad.